

**KING COUNTY HOUSING AUTHORITY
REQUEST FOR PROPOSALS
WEATHERIZATION REPAIR PROJECTS**

ADDENDUM #1

Effective 11/05/2025, this Addendum #1 shall be considered part of the Request for Proposal Documents for the Si View Mechanical and Electrical Bid.

1. The City of North Bend does NOT allow Conex containers on the street and there is no available space on site. No Conex or storage containers will be allowed.
2. The City of North Bend code requires units to be mounted 4' off the ground.
3. The Bracket for mounting the outdoor condenser will be installed in the belly band. Bracket specification sheet is attached.
4. No pumps for condensation. We want to reduce the noise and vibration from the unit.
5. We have already applied for the permits and the winning contractor will sign the permits to complete the transfer and pay all permit fees.
6. There is a Sanican or Port-a-Potty required as there is no restroom on site for construction crew use.
7. A new circuit will need to be installed which will require interior line hide.
8. Heaters are to be removed from the living room, kitchen, and both bedrooms. The heater in the bathroom remains.
9. Most of the buildings have attic access in one of the middle units except for Building A. The Construction Coordinator will investigate each building to confirm access and location. If no attic access is present, gable vent will be the preferred access.
10. The interior line hide color is eggshell white.

11. Beige color 3” rubber cove base recommended for the areas where baseboard heaters are removed.
12. Construction Coordinator will provide matching paint for interior and exterior.
13. Asbestos abatement if required: Contractor will mark areas and KCHA will contract with abatement vendor to abate.
14. Buildings will be referenced as A, B, C, D and E
15. Specification sheets for all equipment are attached.
16. Expectation is that all work areas are to be broom clean and organized at the end of the day. The onsite dumpster is NOT available for contractor use.
17. Expected date of completion is February 28, 2026.

PRODUCT GUIDE

QSWB2000M-1 / QSWB2000SS HEAVY DUTY WALL BRACKETS



Product Overview

These rugged heavy duty wall brackets are designed to provide a reliable, effective method to mount Mitsubishi Electric Outdoor units on a wall or structure above the ground.

Features:

- ▶ The shelf arm which supports the outdoor unit is 25 inches long on the QSWB2000M-1 and QSWB2000SS models. This allows for correct clearance between the back of all M-Series, P-Series, and PUMY outdoor units and the wall on which it is mounted. Leveling bolts thread into support arm to allow shelf arms to be leveled for proper installation of equipment
- ▶ The arm construction on the QSWB2000M-1 and QSWB2000SS is welded for greater strength.
- ▶ There is a spacer bar attachment for the support arms which improves spacing and allows for better mounting and additional strength and rigidity.
- ▶ The QSWB2000M-1 bracket is rated for 500 pounds.
- ▶ The new QSWB2000SS wall bracket is the same design as the QSWB2000M-1 except that it is made from 316 stainless steel material. It is perfect for adverse conditions such as sea coast homes and buildings.
- ▶ The QSWB2000SS bracket is rated for 600 pounds.

Mounting:

- ▶ Wall bracket load capacity can only be assured if the installation is done according to the manufacturer's installation instructions.
- ▶ It is the responsibility of the project engineer and/or the installing contractor/dealer to specify, furnish, and install any anchor or attachment materials required to mount the wall bracket to the wall construction at the selected mounting location.
- ▶ Make sure the chosen installation location meets with specified requirements and wall design and construction is suitable and strong enough to hold the brackets and associated equipment loads.
- ▶ Avoid mounting the bracket and attached load on weak walls, soft siding, veneer panels, perforated bricks/blocks, or other insufficient mounting surfaces.
- ▶ We are not responsible for any installation faults or defects. It is strongly recommended to have the installation periodically inspected by a skilled technician.

* Note: The "M" in the model number indicates the paint color which matches our outdoor units.
For more information, please contact your Mitsubishi Electric sales representative.

WhisperControl

Specification Submittal Data / Panasonic Ventilation Fan

FV-WCCS1-W (White)

FV-WCCS1-A (Almond)

—FAN Only

Condensation Sensor – 3 controls in 1

Humidity – Countdown Timer – Manual On/Off Control

Humidity Control – Automatically turns on exhaust fan to control humidity

Countdown Timer – Manually turning the fan on initiates a 30 minute countdown cycle

Manual On/Off Control – Push the switch for manual fan operation

Includes matching wall plate



Product Specifications	
Ground	Grounding
Feature	Blue Led Light When On
Amperage	15
Maximum Fan Load	1/8 hp or 3 Amps
Voltage	120 Volts
Terminations	6" Leads
Connections (Copper Wire Connections)	Use #14 or #12
Max Fluorescent Light Load	N/A
Standards and Classifications	UL/CSA Listed
Warranty	1 Year Limited

FV-WCCS2-W (White)

FV-WCCS2-A (Almond)

—FAN/LIGHT

Condensation Sensor – 3 controls in 1

Humidity – Countdown Timer – Manual On/Off/ Light Control

Humidity Control – Automatically turns on exhaust fan to control humidity

Countdown Timer – Manually turning the fan on initiates a 30 minute countdown cycle

Manual On/Off Control – Push the switch for manual fan operation

Includes matching wall plate



Product Specifications	
Ground	Grounding
Feature	Blue Led Light When On
Amperage	15
Maximum Fan Load	1/8 hp or 3 Amps
Voltage	120 Volts C21
Connections (Copper Wire Connections)	Use #14 or #12
Max Fluorescent Light Load	400 Watt
Standards and Classifications	UL/CSA Listed
Warranty	1 Year Limited

For complete Installation Instructions visit
www.panasonic.com/building

Model	Quantity	Comments	Project:
			Location:
			Architect:
			Engineer:
			Contractor:
			Submitted by:
			Date:

Panasonic Home and Environment Company
 Division of Panasonic Corporation of North America
 One Panasonic Way
 Secaucus, NJ 07094
www.panasonic.com/building



Panasonic ideas for life

MSZ-GX06NL

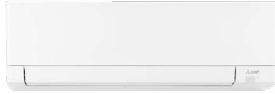
6,000 BTU/H WALL-MOUNTED INDOOR UNIT



Job Name:

System Reference:

Date:



GENERAL FEATURES

- Dual Barrier Coating: The patented Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the inner surface of the heat pump, resulting in optimal airflow and easier maintenance.
- Econo Cool: Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
- Filter: Electrostatic Enzyme filter (built-in) that is charged with static electricity and designed to attract and filter charged particles which can include airborne non-living particulates, and Microparticle filter (optional) that removes non-living particulate matter, which can include dust and smoke.
- Multiple control options including: Back-lit screen hand-held Remote Controller (provided with unit), comfort app, third-party interfaces and both wired and wireless controllers
- Multiple fan speed options: Low, Medium, High, Powerful, Auto
- Powerful Mode: Temporarily drops or raises the set point and fan speed in order to quickly bring the room to the desired temperature.
- Quiet operation: Outdoor units are as quiet as a typical conversation, and most indoor units are whisper quiet.
- Slim wall-mounted indoor units provide zone comfort control
- Smart Dry Mode: Improves humidity control with minimal over-cooling of the space
- Smart Set: recalls a preferred preset temperature setting at the touch of a button
- Wi-Fi enabled units pair with the Comfort app for complete control over temperature, fan speeds, modes, schedules, and more.

Specifications			System
Unit Type			MSZ-GX06NL
Cooling Capacity (Nominal) ^{1,3}	Cooling Capacity (Nominal)	Btu/h	6,000
Heating Capacity (Nominal) ^{2,3}	Heating Capacity (Nominal)	Btu/h	7,200
Electrical	Voltage, Phase, Frequency	V AC / V AC, ø, Hz	208 / 230, 1, 60
	Voltage: Indoor - Outdoor, S1-S2	V AC	230
Indoor Unit	Fan Motor Type		DC Motor
	Fan Motor Output	W	30
	Airflow Rate at Cooling, Dry	CFM	151, 182, 256, 358, 448
	Airflow Rate at Cooling, Wet	CFM	136, 164, 230, 323, 403
	Airflow Rate at Heating, Dry	CFM	151, 182, 256, 358, 459
	DBC on HEX (Yes or No)		Yes
	External Finish Color		Munsell 0.7PB 9.2/0.4
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-13/32 x 9-21/32 x 11-25/32 [798 x 245 x 299]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-1/4 x 14-1/4 x 12-3/4 [870 x 360 x 320]
	Unit Weight	lbs [kg]	23 [10.40]
Piping	Liquid Pipe Size O.D.	inch [mm]	1/4 [6.35]
	Gas Pipe Size O.D.	inch [mm]	3/8 [9.52]
Drain Pipe	Drain Pipe Size O.D.	inch [mm]	5/8 [16]

NOTES

¹Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

²Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

³Nominal capacity only. Actual capacity output varies based on the system-specific configuration.

INDOOR UNIT ACCESSORIES: MSZ-GX06NL

Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	RedLINK Wireless Remote Controller	MHK2
Power Supplies and Auxiliary Components	Backup Heat Relay Kit Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3
Condensate	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	X87-711
	Blue Diamond MegaBlue Advanced Condensate Pump w Reservoir Sensor	X87-835
	Blue Diamond MicroBlue Mini Condensate Pump 110208230V up to 18000 BTUH	X86-003
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Drain Pan Level SensorControl	SS610E
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
	Refco Condensate Pump 100-240 VAC	GOBI-II
	REFCO PUMP 100-240 VAC 506O HZ	X86-011
	Sauermann Condensate Pump	SI30-230
Wired Remote Controller	Deluxe Wired MA Remote Controller ¹	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller ¹	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller ¹	PAR-CT01MAU-SB
Lineset	15 x 1/4 x 15 3/8 Lineset Twin-Tube Insulation	MLS143812T-15
	30 x 1/4 x 30 3/8 Lineset Twin-Tube Insulation	MLS143812T-30
	50 x 1/4 x 50 3/8 Lineset Twin-Tube Insulation	MLS143812T-50
	65 x 1/4 x 65 3/8 Lineset Twin-Tube Insulation	MLS143812T-65
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
Filter	Electro Static Anti-allergy Enzyme Filter	MAC-2320FT-E
	Microparticle Filter	MAC-EMF515FT-E
Control Interface	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	IT Extender for kumo station	PAC-WHS01IE-E
	kumo station for the Comfort app	PAC-WHS01HC-E
	M-Net I/O Control Interface for M-Series ²	MAC-334IF-E
	Procon BACnet and Modbus Interface	PAC-UKPRC001-CN-1
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Wireless Interface Adapter for the Comfort app	PAC-USWHS002-WF-2
Remote Sensor	Remote Temperature Sensor for MFZ MLZ and MSZ models	M21EAA307
	Wireless temperature and humidity sensor for the Comfort app	PAC-USWHS003-TH-1
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16

NOTES

²Allows IDU Connection to MA Controller:
Deluxe MA Remote Controller
Simple MA Controller
Touch MA Controller

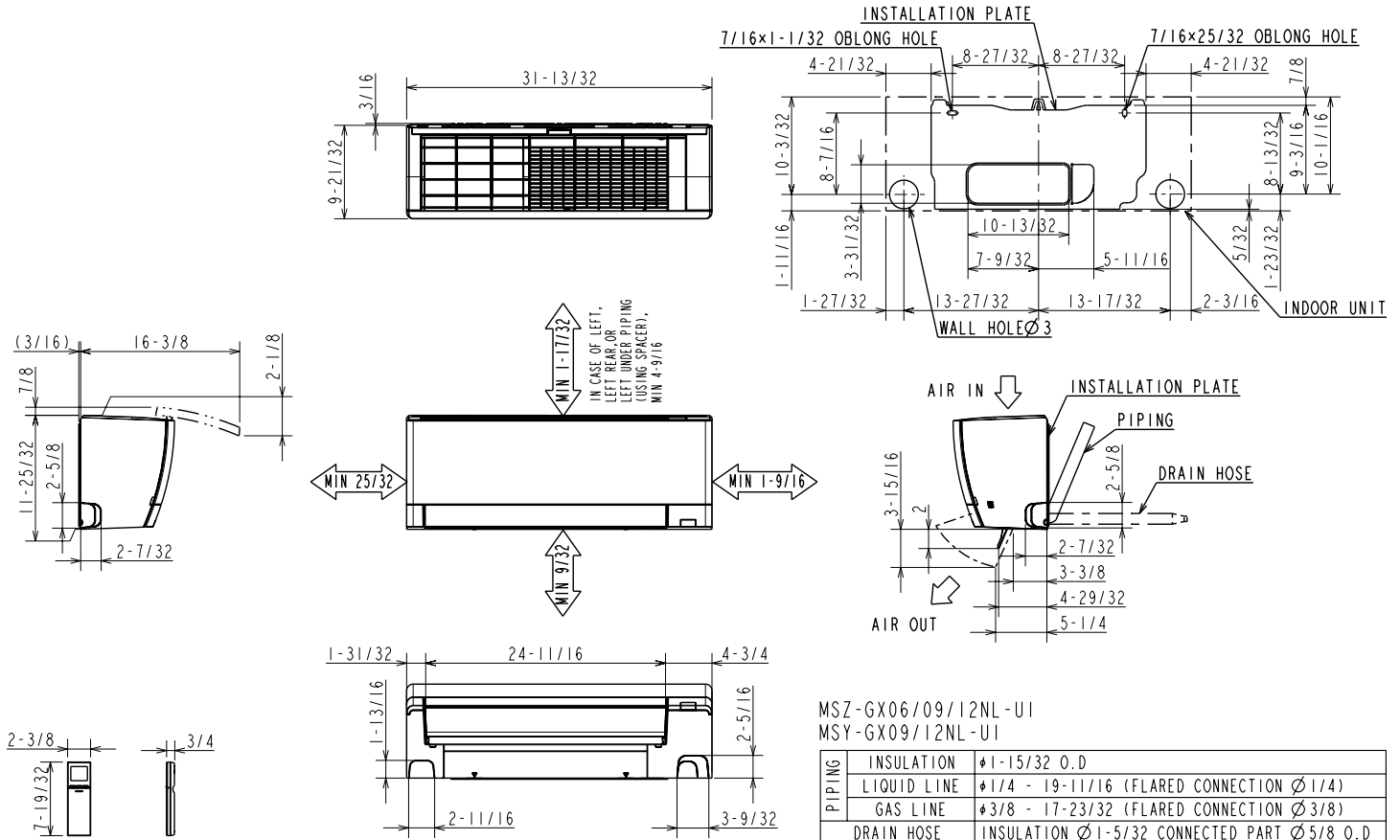
¹Requires MAC-334IF-E Interface to connect MA controller

¹Requires MAC-334IF-E Interface to connect MA controller

¹Requires MAC-334IF-E Interface to connect MA controller

INDOOR UNIT DIMENSIONS: MSZ-GX06NL

MSZ-GX06NL MSZ-GX09NL MSZ-GX12NL MSZ-GX15NL
MSY-GX09NL MSY-GX12NL MSY-GX15NL



MSZ-GX06/09/12NL-UI
 MSY-GX09/12NL-UI

PIPING	INSULATION	1-15/32 O.D.
	LIQUID LINE	1/4 - 19-11/16 (FLARED CONNECTION 1/4)
	GAS LINE	3/8 - 17-23/32 (FLARED CONNECTION 3/8)
	DRAIN HOSE	INSULATION 1-5/32 CONNECTED PART 5/8 O.D.

MSZ-GX15NL-UI
 MSY-GX15NL-UI

PIPING	INSULATION	1-15/32 O.D.
	LIQUID LINE	1/4 - 19-11/16 (FLARED CONNECTION 1/4)
	GAS LINE	3/8 - 17-23/32 (FLARED CONNECTION 1/2)
	DRAIN HOSE	INSULATION 1-5/32 CONNECTED PART 5/8 O.D.

1340 Satellite Boulevard Suwanee, GA 30024
 Toll Free: 800-433-4822 <https://mitsubishicomfort.com>



MSZ-FX06NL & MUZ-FX06NLHZ
6,000 BTU/H WALL-MOUNTED INDOOR UNIT
6,000 BTU/H H2I SUMO™ HYPER-HEATING INVERTER OUTDOOR UNIT



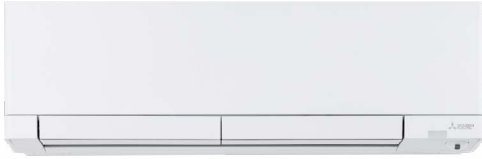
Job Name:

System Reference:

Date:

Indoor Unit.....MSZ-FX06NL

Outdoor Unit.....MUZ-FX06NLHZ



INDOOR UNIT FEATURES

- 3D i-see Sensor® (Built-in): The advanced sensor scans each room to produce a complete thermal profile that includes heat signatures based upon size, temperature and movement, then adjusts temperature and airflow based on user preference, and saves energy according to room occupancy.
- Dual Barrier Coating: The patented Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the inner surface of the heat pump, resulting in optimal airflow and easier maintenance.
- Dual Barrier Fusion: The patented Dual Barrier Fusion reduces the collection of contaminants like dust, fibers, smoke, and oil on the vanes of the indoor unit, keeping it clean all year long. Dual Barrier Fusion's shielding power is fused directly into the material of the horizontal and vertical vanes during manufacturing to maintain effectiveness and longevity of the components, and to promote vane cleanliness and reduce odors.
- Dual Vane: Dual-Vane feature allows for airflow direction to be set independently using two vanes, which can then deliver airflow across wide areas of a room, levels of a zone, or to two people in different locations at the same time.
- Econo Cool: Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
- Multiple control options including: Back-lit screen hand-held Remote Controller (provided with unit), comfort app, third-party interfaces and both wired and wireless controllers
- Multiple fan speed options: Low, Medium, High, Powerful, Auto
- Powerful Mode: Temporarily drops or raises the set point and fan speed in order to quickly bring the room to the desired temperature.
- Quiet operation: Outdoor units are as quiet as a typical conversation, and most indoor units are whisper quiet.
- Slim Design: Slim wall-mounted indoor units provide zone comfort control
- Smart Dry +: The Smart Dry+ mode intelligently provides precise humidity control with minimal over-cooling of the space.
- Triple Action Filtration: Standard Microparticle and Electrostatic Enzyme Filters, along with an optional Carbon-based Deodorizing Filter. It effectively removes non-living particulate matter like dust and smoke, utilizes nanotechnology to absorb and neutralize odors, and employs static electricity to attract and filter charged airborne particles.
- Wi-Fi enabled units pair with the Comfort app for complete control over temperature, fan speeds, modes, schedules, and more.

OUTDOOR UNIT FEATURES

- Blue Fin Coating: An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
- H2i sumo™ Hyper-Heating INVERTER: 100% heating capacity at outdoor temperatures -10° F with guaranteed operation down to -22° F.
- Hot-start technology: The fan only blows air when the heat exchanger has warmed, preventing blasts of cold air at start-up.

SPECIFICATIONS: MSZ-FX06NL & MUZ-FX06NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	14,000
	Rated Capacity	Btu/h	6,000
	Minimum Capacity	Btu/h	1,700
	Maximum Power Input	W	1,240
	Rated Power Input	W	280
	Moisture Removal	Pints/h	0
	Sensible Heat Factor	-	1
Heating at 47F ²	Power Factor [208V / 230V]	%	74 / 76
	Maximum Capacity	Btu/h	20,000
	Rated Capacity	Btu/h	9,000
	Minimum Capacity	Btu/h	1,700
	Maximum Power Input	W	1,770
	Rated Power Input	W	540
	Power Factor [208V / 230V]	%	89 / 90
Heating at 17F ³	Maximum Capacity	Btu/h	14,400
	Rated Capacity	Btu/h	6,000
	Maximum Power Input	W	1,570
	Rated Power Input	W	510
Heating at 5F ⁴	Maximum Capacity	Btu/h	12,600
	Maximum Power Input	W	1,550
Heating at -5F ⁵	Maximum Capacity	Btu/h	10,500
Heating at -10F ⁷	Maximum Capacity	Btu/h	9,000
Heating at -22F ⁹	Maximum Capacity	Btu/h	7,400
Efficiency	SEER2		35
	EER2 ¹		21.45
	HSPF2 [IV]		13
	COP at 47°F ²		4.88
	COP at 17°F at Maximum Capacity ³		2.68
	COP at 5°F at Maximum Capacity ⁴		2.38
	COP at -5°F at Maximum Capacity ⁶		2.14
	COP at -10°F at Maximum Capacity ⁷		1.92
Electrical	ENERGY STAR® Certified		Yes
	Voltage, Phase, Frequency	V AC / V AC, , Hz	208 / 230, 1, 60
	Guaranteed Voltage Range	V AC	187 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	15
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	1
	Fan Motor Output	W	40
	Airflow Rate at Cooling, Dry	CFM	177, 233, 293, 371, 420
	Airflow Rate at Cooling, Wet	CFM	150, 198, 249, 315, 357
	Airflow Rate at Heating, Dry	CFM	177, 247, 311, 406, 477
	Sound Pressure Level [Cooling]	dB (A)	20, 23, 29, 36, 40
	Sound Pressure Level [Heating]	dB (A)	20, 24, 29, 36, 42
	Dual Barrier Coating on Heat Exchanger		Yes
	External Finish Color		Munsell 1.0Y 9.2/0.2
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	39 -9/32 x 9-3/4 x 12 [998 x 247 x 305]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	43 -5/16 x 12-3/4 x 15-3/4 [1,100 x 330 x 400]
	Unit Weight	lbs [kg]	31.40 [14.20]
	Package Weight	lbs [kg]	36.40 [16.50]
	Fan Motor Type		DC Motor
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	90, 73 / 67, 57
	Heating Intake Air Temp [Maximum / Minimum]	°FDB	80 / 70

NOTES

¹Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

²Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

³Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

⁴Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)

⁵Heating at -5°F (Indoor: 70°F DB, 60°F WB // Outdoor: -5°F DB, -6°F WB)

⁷Heating at -10°F (Indoor: 70°F DB, 60°F WB // Outdoor: -10°F DB, -11°F WB)

⁹Heating at -22°F (Indoor: 70°F DB, 60°F WB // Outdoor: -22°F DB, -23°F WB)

^{*} Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

^{**} Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

• System cuts out in heating mode and automatically restarts at these temperatures.

SPECIFICATIONS: MSZ-FX06NL & MUZ-FX06NLHZ

Outdoor Unit	MCA	A	12
	MOCP	A	15
	Fan Motor Output	W	55
	Airflow Rate Cooling	CFM	1,815
	Airflow Rate Heating	CFM	1,321
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes, No
	Sound Pressure Level, Cooling ¹	dB (A)	47
	Sound Pressure Level, Heating ²	dB (A)	48
	Compressor Type		Twin Rotary
	Compressor Model		SRB092FQFMT
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 11.80
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Built-in
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	31-1/2 x 11-1/4 x 28-1/8 [800 x 285 x 714]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	37 x 15 x 35 [940 x 380 x 890]
	Unit Weight	lbs [kg]	89 [40.4]
ODU Operating Temp. Range	Cooling Intake Maximum Air Temp [Maximum / Minimum*]	°FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	-4 / 0
	Heating Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -22, -23.8
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-34 / -23
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs, oz	2, 10
	Maximum Pre-Charged Piping Length	ft [m]	25 [7.50]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Maximum Piping Length	ft [m]	65 [20]
	Maximum Height Difference	ft [m]	40 [12]
	Maximum Number of Bends		10

NOTES

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²Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

³Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

⁴Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)

⁵Heating at -5°F (Indoor: 70°F DB, 60°F WB // Outdoor: -5°F DB, -6°F WB)

⁷Heating at -10°F (Indoor: 70°F DB, 60°F WB // Outdoor: -10°F DB, -11°F WB)

⁸Heating at -22°F (Indoor: 70°F DB, 60°F WB // Outdoor: -22°F DB, -23°F WB)

* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

** Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

• System cuts out in heating mode and automatically restarts at these temperatures.

INDOOR UNIT ACCESSORIES: MSZ-FX06NL

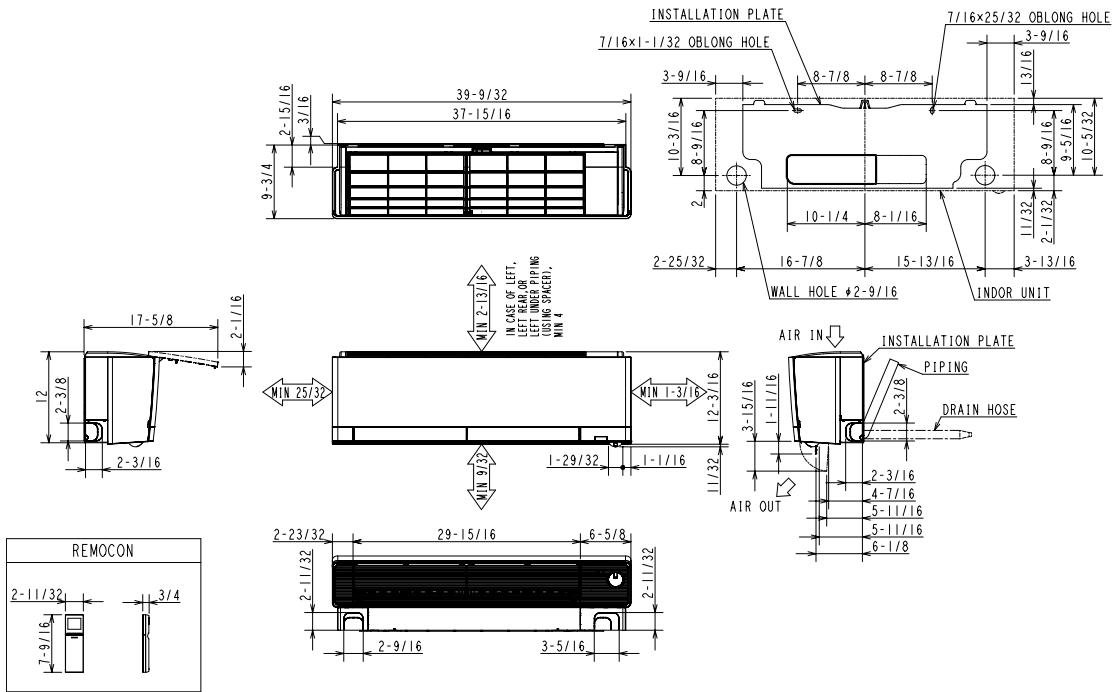
Power Supplies and Auxiliary Components	Backup Heat Relay Kit Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
Condensate	Blue Diamond (Slim Fascia Kit) Condensate Pump w/ Reservoir & Sensor	X86-011
	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	X87-711
	Blue Diamond MegaBlue Advanced Condensate Pump w Reservoir Sensor	X87-835
	Blue Diamond MicroBlue Mini Condensate Pump 110208230V up to 18000 BTUH	X86-003
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Drain Pan Level SensorControl	SS610E
	Refco Condensate Pump 100-240 VAC	GOBI-II
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
	Sauermann Condensate Pump	SI30-230
Wired Remote Controller	Deluxe Wired MA Remote Controller ¹	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller ¹	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller ¹	PAR-CT01MAU-SB
Control Interface	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	IT Extender for kumo station	PAC-WHS01IE-E
	kumo station for the Comfort app	PAC-WHS01HC-E
	M-Net I/O Control Interface for M-Series ²	MAC-334IF-E
	Procon BACnet and Modbus Interface	PAC-UKPRC001-CN-1
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Wireless Interface Adapter for the Comfort app	PAC-USWHS002-WF-2
Lineset	15 x 1/4 x 15 3/8 Lineset Twin-Tube Insulation	MLS143812T-15
	30 x 1/4 x 30 3/8 Lineset Twin-Tube Insulation	MLS143812T-30
	50 x 1/4 x 50 3/8 Lineset Twin-Tube Insulation	MLS143812T-50
	65 x 1/4 x 65 3/8 Lineset Twin-Tube Insulation	MLS143812T-65
Remote Sensor	Remote Temperature Sensor for MFZ MLZ and MSZ models	M21EAA307
	Wireless temperature and humidity sensor for the Comfort app	PAC-USWHS003-TH-1
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
Filter	Electro Static Anti-allergy Enzyme Filter	MAC-2330FT-E
	Microparticle Filter	MAC-EMF515FT-E
	Platinum Deodorizing Filter	MAC-3010FT-E
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	RedLINK Wireless Remote Controller	MHK2
NOTES ² Allows IDU Connection to MA Controller: Deluxe MA Remote Controller Simple MA Controller Touch MA Controller ¹ Requires MAC-334IF-E Adapter ¹ Requires MAC-334IF-E Adapter ¹ Requires MAC-334IF-E Adapter		

OUTDOOR UNIT ACCESSORIES: MUZ-FX06NLHZ

Stand	18 Single Fan Stand	QSMS1801M
	24 Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Outdoor Unit Stand 12 High	QSMS1201M
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
	16 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW164-250
	16 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW164-50
	16 Gauge 4 wire MiniSplit Cable250 ft roll	S164-250
	16 Gauge 4 wire MiniSplit Cable50 ft roll	S164-50
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
Hail Guards	Hail Guard	HG-B4
Snow/Rain Diverter	SnowRain Diverter	SRD-1
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
NOTES		

INDOOR UNIT DIMENSIONS: MSZ-FX06NL

MSZ-FX06NL-U1
MSZ-FX09NL-U1
MSZ-FX12NL-U1
MSZ-FX15NL-U1
MSZ-FX18NL-U1
MSZ-FX24NL-U1



MSZ-FX06/09/12NL

PIPING	INSULATION	ø1-9/16 O.D
	LIQUID LINE	ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)
	GAS LINE	ø3/8 - 17-3/4 (FLARED CONNECTION ø3/8)
DRAIN HOSE		INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D

MSZ-FX15/18NL

PIPING	INSULATION	ø1-9/16 O.D
	LIQUID LINE	ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)
	GAS LINE	ø3/8 - 17-3/4 (FLARED CONNECTION ø1/2)
DRAIN HOSE		INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D

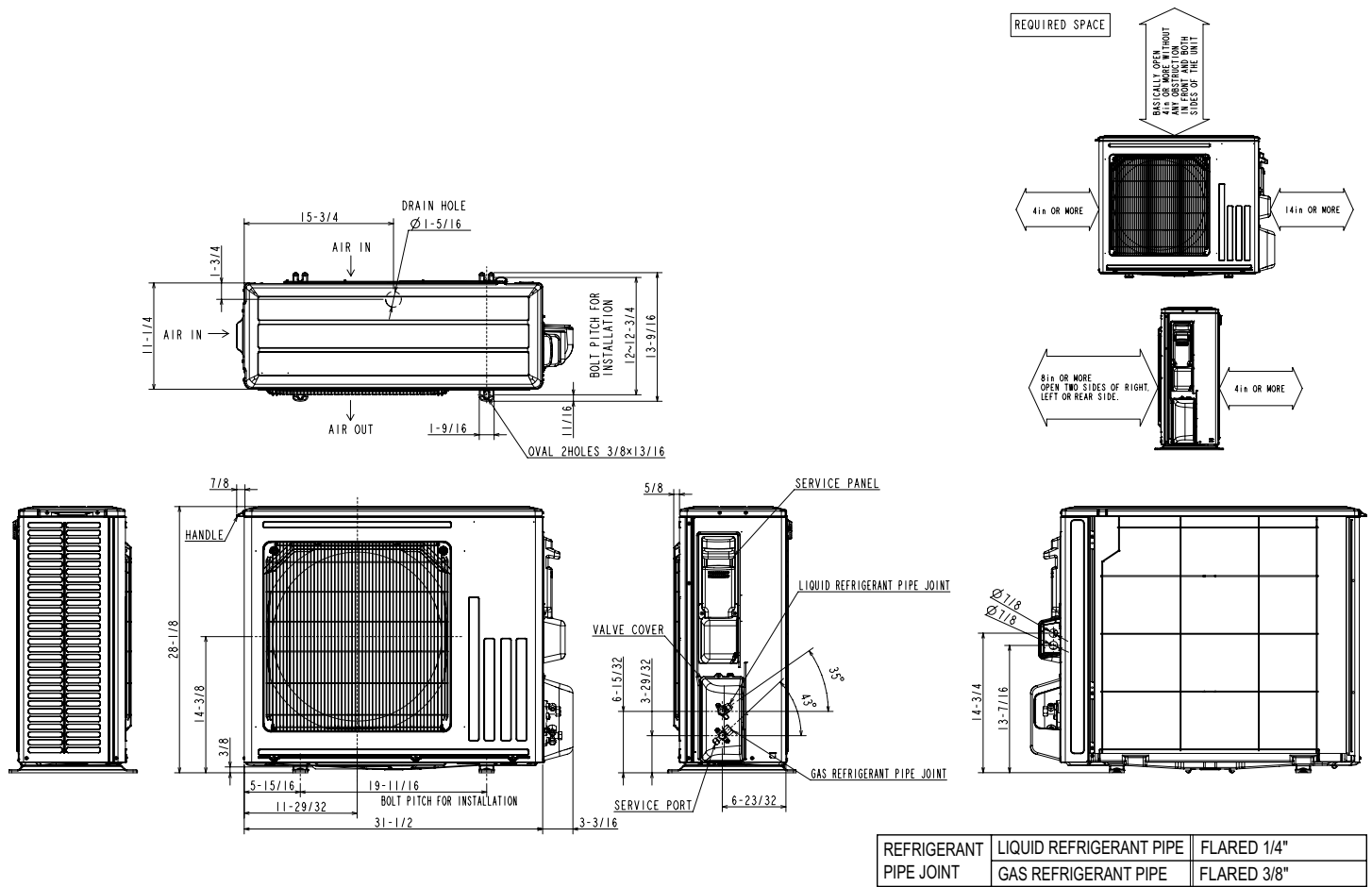
MSZ-FX24NL

PIPING	INSULATION	ø1-9/16 O.D
	LIQUID LINE	ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)
	GAS LINE	ø15/32 - 17-3/4 (FLARED CONNECTION ø5/8)
DRAIN HOSE		INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D

*The diameter of the gas line piping is ø3/8 in one spot.

OUTDOOR UNIT DIMENSIONS: MUZ-FX06NLHZ

MUZ-FX06NLHZ-U1
MUZ-FX09NLHZ-U1
MUZ-FX12NLHZ-U1



METUS_2025-02_PROPIN

1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 <https://mitsubishicomfort.com>



Job Name:

System Reference:

Date:

MRCH2 WIRELESS REDLINK REMOTE CONTROLLER



REDLINK 3.0
WIRELESS
TECHNOLOGY

MIFH2 WIRELESS REDLINK RECEIVER



MRC2

kumo touch™

Sold Separately



A Wireless Interface 2 needs to be purchased and installed with each kumo touch in order to remotely control and monitor each indoor unit with the kumo cloud app



PAC-USWHS002-WF-2
Wireless Interface 2

kumo cloud®

MRCH2 WIRELESS REDLINK REMOTE CONTROLLER SPECIFICATIONS

- Touch panel, Backlit, easy-to-read display
- New RedLINK™ 3.0 wireless technology
 - Not compatible with MHK1, MOS1, MCCH1, or Gateway (Rig) RedLINK 2.0 wireless technology environment.
- User functions allow user to set:
 - On/Off
 - Operation modes cool, heat, drying, fan
 - Set temperature (separate dual set points for heat and cool)
 - Fan speed setting
 - Airflow direction
- Set temperature range limits (dependent on the system connected):
 - Cooling from 50° to 99° F
 - Heating from 40° to 90° F
 - Auto from 50° to 90° F with dual temperature setting
- MHK2 Scheduling options:
 - No Schedule
 - MO-SU = Every day the same
 - MO-FR, SA, SU = 5-1-1 schedule
 - MO-FR, SA-SU = 5-2 schedule
 - Each Day = Every day individual
 - Allow kumo cloud to be schedule holder
- Hold function
- Temporary or Permanent schedule override
- Lockout:
 - On, Off, Mode, Fan Speed, Set point, Vane Direction
- Day/Time display with a 12 or 24-hour clock
- Supports both Fahrenheit and Celsius
- RedLINK™ Wireless Connection Status
- Filter sign display
- Diagnostics: Displays and records error codes
- Adjustable auto mode deadband
- Space temperature offset adjustment
- Space humidity offset adjustment
- Hide (on screen only)

- Indoor temperature, Indoor humidity
- Temperature Sensing Source
 - MHK2
 - Indoor Unit
 - RedLINK Wireless Indoor Air Sensor (IAS)
 - Average of MHK2 and RedLINK Wireless Indoor Air Sensor (IAS)
- Indoor Humidity Source
 - MHK2
 - RedLINK Wireless Indoor Air Sensor (IAS)
 - Average of MHK2 and RedLINK Wireless Indoor Air Sensor (IAS)
- Improved indoor unit function code list
 - Indoor unit type
 - Expanded to 28 indoor unit codes
- Reset to factory default
- Uses two "AA" alkaline batteries (included)
- Dimensions: 4-5/64" x 4-5/64" x 1-1/16" (104 x 104 x 27 mm)
- Operating Ambient Temperature: 32° to 120° F (0° to 48.9° C)
- Operating Relative Humidity: 5% to 90%

MIFH2 WIRELESS RECEIVER SPECIFICATIONS:

- Included in MHK2 Kit
- Mounts next to or near indoor units to allow MRCH2 Remote Controller operation
- Connects to indoor unit control board with MRC2 Cable
- Dimensions: 3-3/32" H x 1-3/4" W x 39/64" D (74.8 x 44.4 x 15.4 mm)
- Operating Ambient Temperature: -40° to 165° F (-40° to 73.9° C)
- Operating Relative Humidity: 5% to 95%

MRC2 CABLE

- Included in MHK2 Kit in the MIFH2 box
- Connects MIFH2 Wireless Receiver to the CN105 connector on indoor unit control board
- Length: 39-23/64" (1 m)

MHK2 kumo touch™

A Wireless Interface 2 is required in order to use the kumo cloud app – see Install Manual for details.

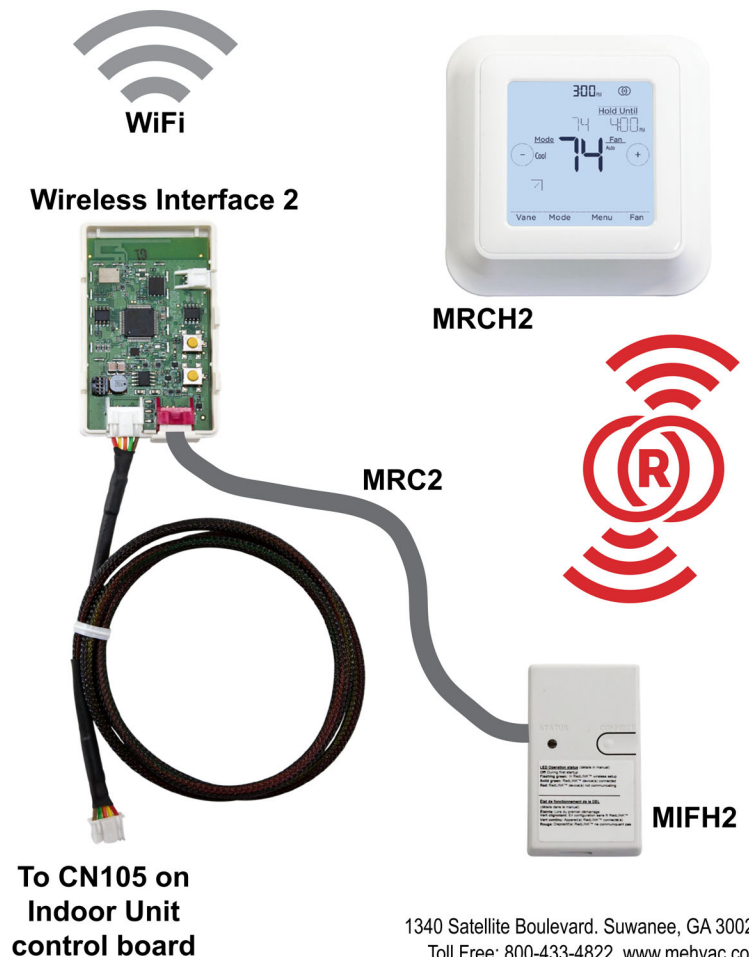


kumo cloud® & MHK2

- kumo cloud and MHK2 can work together on the same indoor unit with the following devices:
 - Wireless Interface 2
 - PAC-USWHS002-WF-2
 - Wireless Interface 2 has an additional CN105 connector on it
 - MHK2 kit
- Compatibility with current indoor units:
 - All CITY MULTI®
 - All P-Series
 - All M-series

Accessories (Sold Separately)

- ☐ Wireless Interface 2 (PAC-USWHS002-WF-2)
- ☐ CN105 IT Extender (PAC-WHS01IE-E)
- ☐ RedLINK 3.0 Wireless Indoor Air Sensor
 - Not sold by Mitsubishi Electric Trane HVAC US LLC
 - Honeywell Model number: RCHTSensor
 - Honeywell Part Number: C7189R2002



1340 Satellite Boulevard, Suwanee, GA 30024
Toll Free: 800-433-4822 www.mehvac.com

WhisperGreen® Select Customizable Ventilation Fans

WhisperGreen® Select
VENTILATION FAN

Fan Only Models

FV-0511VK3, FV-1115VK3, FV-0511VKS3

Fan/Light Models

FV-0511VKL3, FV-1115VKL3, FV-0511VKSL3

Architectural Grille Designs

FV-0511VKS3S (Fan Only)

FV-0511VKSL3K (Fan/Light)



Meet the Next Generation WhisperGreen® Select

Based on Panasonic's quality improvement commitment and voice of customer input, the next generation WhisperGreen® Select is now more powerful than ever. Discover robust new features and a designer look that enhance the legendary performance homeowners expect from Panasonic.

NEW! KEY FEATURES

Increased Energy Efficiency

Comply with the more stringent ENERGY STAR® Most Efficient 2024 criteria of 11.4 CFM/watt with the improved DC motor and overall design enhancements.

Designer Grille Options

Sharper, cleaner lines on the traditional grille and two new architectural grille designs for a more elegant appeal.

LED Lighting

A new 5 color changing temperature light module for the architectural model provides the option to match desired lighting levels.

FV-0511VKSL3K (3000K, 3500K, 4000K, 5000K, 6000K)

Expanded True Flow Performance

HVI-certified and the only residential ventfan series with a combination of certified CFM performance at 0.5 w.g. and low sone levels.

WiFi Plug N Play® Module

Respond automatically to poor air conditions. Communicate with other ventilation devices to manage indoor air quality more efficiently.



ONE SUPERIOR FAN WITH ENDLESS POSSIBILITIES

The ideal IAQ solution for virtually any space

For over two decades, Panasonic has developed innovative solutions that promote better indoor air quality and healthy home building. On our mission to help you build healthy homes, WhisperGreen® Select offers a powerful customizable IAQ solution that delivers healthy indoor air quality for healthy living in any space.

Although ASHRAE, ENERGY STAR®, LEED for Homes, and HVI have set the industry standard for performance measurement at 0.1" and 0.25", Panasonic has yet again found a way to stay ahead of the game. WhisperGreen® Select fans provide superior installed performance and powerful CFM output up to 0.5"

WHISPERGREEN® SELECT IS AS EASY AS 1-2-3!

Step 1- Select a Base Fan Model

Select a base model to start building the perfect IAQ solution that satisfies your ventilation design requirements.

Pick-A-Flow® Airflow Technology

Pick-A-Flow® Airflow Selector – one fan, you choose the CFM. Provides the unique ability to select your required airflow (50-80-110 and 110-130-150 CFM models) with the simple flip of a switch.

Fan Only	Fan/Light
FV-0511VK3- 50-80-110 CFM Pick-A-Flow® single speed	FV-0511VKL3- 50-80-110 CFM Pick-A-Flow® single speed + LED Light
FV-0511VKS3- 30 to 110 CFM pre-installed multi-speed	FV-0511VKSL3- 30 to 110 CFM pre-installed multi-speed + LED Light
FV-1115VK3- 110-130-150 CFM Pick-A-Flow® single speed	FV-1115VKL3- 110-130-150 CFM Pick-A-Flow® single speed + LED Light
FV-0511VKS3S- 30 to 110 CFM pre-installed multi-speed	FV-0511VKSL3K- 30 to 110 CFM pre installed multi-speed + LED Light

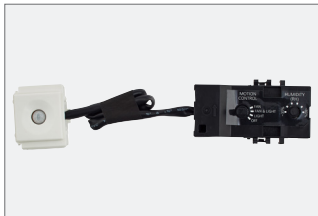
Step 2- Select Value Added Features

WhisperGreen® Select offers a unique set of five patented modules that allow you to further customize your fan.



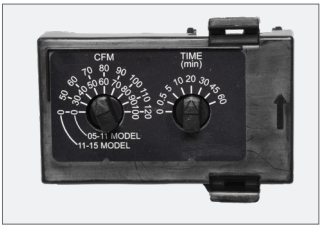
Wi-Fi Module (WP100PBA)

Enables two-way wireless communication between ventilation products. Easily connect, monitor and control the fan’s features (ie. motion sensor, light, etc.) with the Swidget™ app. The Wi-Fi module can operate with a standalone fan, or can be used as part of an Indoor Air Quality healthy home system.



Smart Action® Motion Sensor + Condensation Sensor (FV-CMVK3)

Automatically activates the fan when someone enters the room, or when relative humidity and temperature are about to reach dew point, automatically turning on the fan to control humidity.



Multi-Speed with Time Delay (FV-VS15VK1)

Allows you to select the proper CFM settings to satisfy ASHRAE 62.2 continuous ventilation requirements. The fan runs continuously at a pre-set lower level, then elevates to a maximum level of operation when the wall switch is turned on, or when the SmartAction® motion sensor or condensation sensor module is activated. A high/low delay timer returns the fan to the pre-set CFM level after a period of time set by the user.



SmartAction® Motion Sensor (FV-MSVK1)

Automatically activates when someone enters the room. Once the settings have been applied, the fan becomes truly automatic, making it ideal for people with disabilities and assisted living environments such as nursing homes and retirement communities. This module also activates an automatic 20-minute delay off timer for the fan.

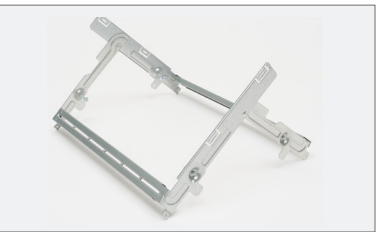


Condensation Sensor (FV-CSVK1)

Helps control bathroom condensation to prevent mold and mildew. Advanced sensor technology detects relative humidity and temperature to anticipate dew point, automatically turning the fan on to extract humidity. Built-in Relative Humidity (RH) sensitivity adjustment enables fine tuning for moist conditions (30% to 80%, in 10% increments) and for satisfying CALGreen requirements. When the condensation sensor is used in conjunction with multi-speed functionality, the fan will kick up to high speed when the condensation sensor detects moisture in the room. This module also activates an automatic 20-minute delay off timer for the fan.

Step 3- Install Your Ideal Fan with the Flex-Z Fast® Installation System

Ingeniously designed installation bracket provides flexible, fast and easy installation for all your new construction or renovation projects.



Single-hinged articulating joints to easily position bracket in between the joist and/or through ceiling hole.



Easily position bracket in between the joist or ceiling hole.



Extend bracket to desired length.

LED Lighting

JA-8 compliant for CA Title 24/50,000 hours rated average life. Standard fan/light models feature a warm white LED light. All Architectural models feature a five Color Changing Temperature LED light.



HEALTHY AIR, HEALTHY HOME

True Flow ratings at **0.375" and 0.5"** static pressure provide powerful airflow to assure code compliant, healthy homes.

Exploded view diagram of the 15-inch square stainless steel sink. The diagram shows the sink body, the drain assembly, and the drain cover. Dimensions are provided for the sink body: 10-1/4" for the front and side widths, and 7-1/2" for the depth. The drain cover is shown separately with a diameter of 3-7/8". The sink body is shown with a 5-7/8" opening for the drain assembly.

Specifications											
Duct Diameter (inches)											
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25
	Air Volume (CFM)	110	110	110	109	100	100	100	100	90	90
	Noise (sones)	<0.3	0.3	---	---	<0.3	0.3	---	---	<0.3	0.3
	Power Consumption (watts)	6.7	12.1	17.0	23.0	5.5	10.5	15.4	20.5	4.9	9.7
	Energy Efficiency (CFM/Watt)	16.7	9.3	6.6	4.8	18.5	9.8	6.6	5.0	18.4	9.5
	Speed (RPM)	595	887	1089	1261	580	892	1097	1260	572	898
	Amps (Current)	0.11	0.20	0.27	0.36	0.10	0.18	0.25	0.32	0.09	0.17
	MAX. Amps (Current)										
Duct Diameter (inches)											
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25
	Air Volume (CFM)	110	110	110	104	100	100	100	100	90	90
	Noise (sones)	<0.3	0.8	---	---	<0.3	0.7	---	---	<0.3	0.7
	Power Consumption (watts)	9.7	15.2	21.0	24.7	7.8	13.0	18.0	23.5	6.6	11.6
	Energy Efficiency (CFM/Watt)	11.5	7.3	5.3	4.2	12.9	7.8	5.6	4.3	13.6	7.7
	Speed (RPM)	782	1031	1214	1349	747	1007	1189	1349	714	993
	Amps (Current)	0.16	0.24	0.33	0.38	0.14	0.22	0.29	0.37	0.12	0.20
	MAX. Amps (Current)										
Specifications	Motor Type										
	Type of Motor Bearing										
	Thermal Fuse Protection										
	Blower Wheel Type										
	ENERGY STAR Qualified										
Installation	Duct Diameter (Inches)										
	Mounting Opening (Inches sq.)										
	Grille Size (Inches sq.)										
Additional Features	SmartAction Motion Sensor										
	On / Off Delay Timer										
	CustomVent Variable Speed Control										
	SmartFlow Optimum CFM Technology										
Light Specifications	Lamp Watts										
	Lumens (lm)										
	Lumens Per Watt (LPW)										
	Color Rendering Index										
	Color Temperature (Kelvin)										
	Rated Life (hours)										
	Lamp Model #										
	Type of Lamp Socket										
Night Light Specs	Night Light Watts										
Shipping	Gross Weight (lbs)										
Approved Code/ Standard/Regulation	UL tub/Shower Enclosure										
	Washington VIAQ Code										
	Wall installation										
	California Title 24 Compliant										
	Mfg in ISO 9001 Certified Facility										

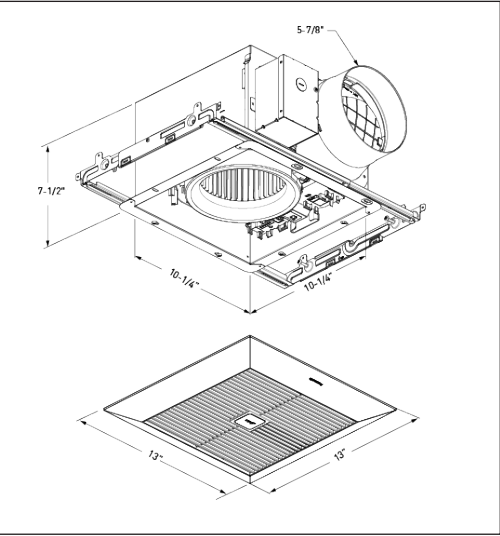
WhisperGreen® Select (Fan Only)																											
Base Fan (50-80-110) / Fan with built-in multi-speed (30-110)																											
FV-0511VK3 / FV-0511VKS3																											
6"																											
0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5		
90	90	80	80	80	80	70	70	70	70	60	60	60	60	50	50	50	50	40	40	40	40	30	30	30	30		
---	---	<0.3	0.3	---	---	<0.3	0.3	---	---	<0.3	0.3	---	---	<0.3	0.4	---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---		
14.3	19.3	4.4	9.2	13.2	17.6	4.0	8.2	12.2	16.3	3.6	7.4	11.1	15.0	3.4	7.0	9.9	13.3	3.0	6.2	8.7	12.0	2.8	5.5	7.9	11.4		
6.5	4.7	18.4	8.8	6.1	4.6	17.7	8.7	5.9	4.4	16.8	8.2	5.5	4.2	14.9	7.2	5.3	4.0	13.6	6.6	4.7	3.6	10.8	5.7	4.0	3.2		
1102	1283	569	908	1109	1281	565	902	1121	1283	570	906	1120	1293	575	933	1127	1296	563	921	1126	1294	587	930	1123	1300		
0.24	0.31	0.08	0.16	0.22	0.28	0.08	0.14	0.20	0.27	0.07	0.13	0.19	0.24	0.07	0.12	0.17	0.22	0.06	0.11	0.15	0.20	0.06	0.10	0.14	0.19		
0.36																											
4"																											
0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5		
90	89	80	80	80	80	70	70	70	70	60	60	60	60	50	50	50	50	40	40	40	40	30	30	30	30		
---	---	<0.3	0.7	---	---	<0.3	0.7	---	---	<0.3	0.7	---	---	<0.3	0.6	---	---	<0.3	0.6	---	---	<0.3	0.6	---	---		
16.2	21.0	5.6	10.6	14.7	19.4	5.1	9.3	13.4	17.0	4.4	8.1	11.7	15.5	3.8	7.3	10.4	13.6	3.4	6.3	9.3	12.0	2.9	5.6	8.4	11.5		
5.6	4.2	14.2	7.7	5.4	4.1	14.0	7.6	5.3	4.2	13.8	7.6	5.2	3.9	13.5	7.0	5.0	3.8	12.9	6.9	4.6	3.6	10.5	5.7	3.8	3.0		
1170	1333	684	985	1166	1340	672	964	1164	1317	654	956	1148	1324	630	946	1145	1313	619	938	1142	1299	606	939	1141	1304		
0.26	0.33	0.10	0.18	0.24	0.31	0.09	0.16	0.22	0.27	0.08	0.14	0.19	0.25	0.07	0.13	0.17	0.22	0.66	0.11	0.16	0.20	0.58	0.10	0.14	0.19		
0.66																											
DC																											
Ball																											
Yes																											
Sirocco																											
Yes																											
6" / 6" to 4" reducer																											
10-1/2"																											
13"																											
Add module FV-MSVK1 or FV-CMVK3																											
Standard in FV-0511VKS3 Model																											
FV-0511VK3: 50-80-110 CFM																											
FV-0511VKS3: 30-40-50-60-70-80-90-100-110 CFM																											
Yes																											
N/A																											
N/A																											
N/A																											
N/A																											
N/A																											
N/A																											
N/A																											
N/A																											
9.5																											
Yes																											
Yes																											
Yes																											
Yes																											
Yes																											



HEALTHY AIR, HEALTHY HOME

True Flow ratings at **0.375" and 0.5"** static pressure provide powerful airflow to assure code compliant, healthy homes.

FV-1115VK3



Specifications											
Duct Diameter (inches)											
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25
	Air Volume (CFM)	150	150	147	123	130	130	129	121	120	120
	Noise (sones)	0.3	0.7	---	---	<0.3	0.4	---	---	<0.3	0.3
	Power Consumption (watts)	11.5	18.0	23.6	24.7	8.7	14.7	19.7	24.6	7.3	12.7
	Energy Efficiency (CFM/Watt)	13.6	8.8	6.5	5.2	15.5	9.4	6.8	5.1	17.3	10.0
	Speed (RPM)	682	915	1089	1256	633	905	1090	1259	622	891
	Amps (Current)	0.19	0.29	0.37	0.38	0.15	0.24	0.31	0.39	0.13	0.21
	MAX. Amps (Current)										
Specifications	Motor Type										
	Type of Motor Bearing										
	Thermal Fuse Protection										
	Blower Wheel Type										
	ENERGY STAR Qualified										
Installation	Duct Diameter (Inches)										
	Mounting Opening (Inches sq.)										
	Grille Size (Inches sq.)										
Additional Features	SmartAction Motion Sensor										
	On / Off Delay Timer										
	CustomVent Variable Speed Control										
	SmartFlow Optimum CFM Technology										
Light Specifications	Lamp Watts										
	Lumens (lm)										
	Lumens Per Watt (LPW)										
	Color Rendering Index										
	Color Temperature (Kelvin)										
	Rated Life (hours)										
	Lamp Model #										
	Type of Lamp Socket										
Night Light Specs	Night Light Watts										
Shipping	Gross Weight (lbs)										
Approved Code/ Standard/ Regulation	UL tub/Shower Enclosure										
	Washington VIAQ Code										
	Wall installation										
	California Title 24 Compliant										
	Mfg in ISO 9001 Certified Facility										

WhisperGreen® Select (Fan Only)																													
Base Fan + Multi-speed module																													
FV-1115VK3 + FV-VS15VK1																													
6"																													
0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5
117	118	110	110	110	110	100	100	100	100	90	90	90	89	80	80	80	80	70	70	70	70	60	60	60	60	50	50	50	50
---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	0.3	---	---	<0.3	0.3	---	---	<0.3	0.3	---	---	<0.3	0.4	---	---
17.7	24.0	6.8	12.1	17.5	22.7	5.5	10.6	15.9	20.3	4.8	9.8	14.5	18.8	4.3	9.1	13.3	17.8	3.9	8.3	12.5	16.8	3.6	7.4	11.2	14.8	3.4	7.0	10.4	13.3
6.9	5.2	17.0	9.6	6.6	5.1	18.9	9.9	6.8	5.1	19.6	9.6	6.7	4.9	19.1	9.3	6.2	4.6	18.6	8.9	5.9	4.4	17.3	8.5	5.6	4.2	15.8	7.7	5.1	4.2
1095	1261	602	894	1103	1264	583	895	1098	1258	567	900	1098	1270	556	900	1110	1280	553	900	1111	1292	561	902	1116	1284	583	918	1131	1290
0.29	0.38	0.12	0.2	0.28	0.36	0.1	0.18	0.26	0.33	0.09	0.17	0.24	0.31	0.08	0.16	0.22	0.29	0.07	0.14	0.21	0.27	0.07	0.13	0.19	0.25	0.07	0.12	0.18	0.22
0.39																													
DC																													
Ball																													
Yes																													
Sirocco																													
Yes																													
6" Duct																													
10-1/2"																													
13"																													
Add module FV-MSVK1 or FV-CMVK3																													
Add module FV-VS15VK1																													
FV-1115VK3: 150/130/110 CFM FV-1115VK3 + FV-VS15VK1: 150/130/120/110/100/90/80/70/60/50 CFM																													
Yes																													
N/A																													
N/A																													
N/A																													
N/A																													
N/A																													
N/A																													
N/A																													
N/A																													
N/A																													
9.5																													
Yes																													
Yes																													
Yes																													
Yes																													
Yes																													



Specifications												
Duct Diameter (inches)												
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	
	Air Volume (CFM)	110	110	110	109	100	100	100	100	90	90	
	Noise (sones)	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	<0.3	
	Power Consumption (watts)	7.4	12.9	18.1	23.8	6.2	11.2	16.6	21.7	5.4	10.6	
	Energy Efficiency (CFM/Watt)	15.2	8.6	6.2	4.6	16.4	9.1	6.3	4.7	17.3	8.8	
	Speed (RPM)	641	932	1120	1282	629	930	1129	1299	620	936	
	Amps (Current)	0.12	0.21	0.28	0.37	0.11	0.19	0.27	0.34	0.10	0.18	
	MAX. Amps (Current)											
Duct Diameter (inches)												
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	
	Air Volume (CFM)	110	110	110	100	100	100	100	100	90	90	
	Noise (sones)	<0.3	0.6	---	---	<0.3	0.6	---	---	<0.3	0.5	
	Power Consumption (watts)	10.7	16.5	22.1	24.8	8.3	14.2	18.8	23.9	7.1	12.4	
	Energy Efficiency (CFM/Watt)	10.5	6.8	5.1	4.1	12.2	7.2	5.4	4.2	12.8	7.5	
	Speed (RPM)	829	1077	1241	1365	783	1047	1212	1367	751	1022	
	Amps (Current)	0.18	0.26	0.34	0.38	0.15	0.23	0.30	0.37	0.12	0.21	
	MAX. Amps (Current)											
Specifications	Motor Type											
	Type of Motor Bearing											
	Thermal Fuse Protection											
	Blower Wheel Type											
	ENERGY STAR Qualified											
Installation	Duct Diameter (Inches)											
	Mounting Opening (Inches sq.)											
	Grille Size (Inches sq.)											
Additional Features	SmartAction Motion Sensor											
	On / Off Delay Timer											
	CustomVent Variable Speed Control											
	SmartFlow Optimum CFM Technology											
Light Specifications	Lamp Watts											
	Lumens (lm)											
	Lumens Per Watt (LPW)											
	Color Rendering Index											
	Color Temperature (Kelvin)											
	Rated Life (hours)											
	Lamp Model #											
	Type of Lamp Socket											
Night Light Specs	Night Light Watts											
Shipping	Gross Weight (lbs)											
Approved Code/ Standard/Regulation	UL tub/Shower Enclosure											
	Washington VIAQ Code											
	Wall installation											
	California Title 24 Compliant											
	Mfg in ISO 9001 Certified Facility											

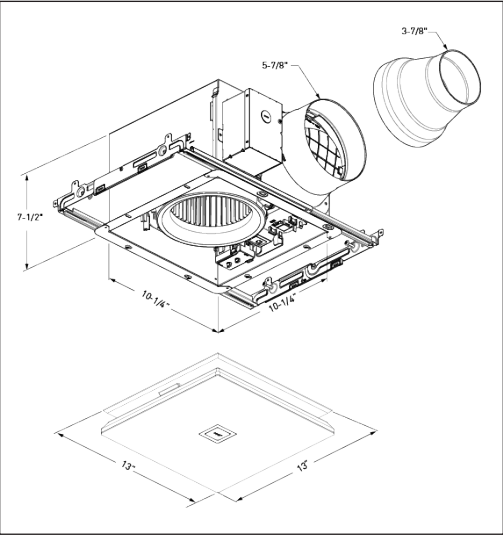
WhisperGreen® Select																										
Base Fan with multi-speed module																										
FV-0511VKS3S																										
6"																										
0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	
90	90	80	80	80	80	70	70	70	70	60	60	60	60	50	50	50	50	40	40	40	40	30	30	30	30	
---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	
15.0	19.8	4.7	9.5	13.2	18.1	4.3	8.6	12.4	16.7	3.9	7.7	11.0	15.0	3.4	7.2	10.3	13.4	3.1	6.2	9.1	12.4	2.9	5.6	8.2	11.4	
6.2	4.7	17.3	8.6	6.1	4.5	16.8	8.4	5.8	4.3	16.1	8.1	5.7	4.2	15.2	7.2	5.0	3.9	13.5	6.8	4.7	3.5	11.2	5.9	4.1	3.3	
1127	1294	601	928	1111	1294	592	920	1122	1298	590	917	1118	1304	577	930	1130	1303	577	926	1147	1317	585	934	1130	1300	
0.25	0.32	0.09	0.16	0.22	0.29	0.08	0.15	0.21	0.27	0.07	0.13	0.19	0.24	0.07	0.12	0.17	0.22	0.06	0.11	0.15	0.20	0.06	0.10	0.14	0.19	
0.37																										
4"																										
0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	
90	90	80	80	80	80	70	70	70	70	60	60	60	60	50	50	50	50	40	40	40	40	30	30	30	30	
---	---	<0.3	0.5	---	---	<0.3	0.5	---	---	<0.3	0.4	---	---	<0.3	0.4	---	---	<0.3	0.3	---	---	<0.3	0.3	---	---	
17.1	21.7	6.2	11.1	15.1	19.6	5.4	9.8	13.8	17.5	4.7	8.5	11.5	15.8	4.0	7.8	10.9	13.9	3.3	6.3	9.1	12.4	3.0	5.8	8.5	11.6	
5.4	4.2	13.0	7.4	5.3	4.1	13.1	7.5	5.4	4.1	13.4	7.4	5.5	4.1	13.6	7.0	5.0	4.1	12.4	6.7	4.7	3.5	10.6	5.9	4.2	3.4	
1203	1352	726	1005	1192	1350	708	996	1184	1344	677	970	1155	1329	645	974	1172	1322	617	942	1149	1322	612	949	1147	1307	
0.28	0.34	0.11	0.19	0.25	0.31	0.10	0.17	0.23	0.29	0.09	0.15	0.20	0.26	0.08	0.14	0.19	0.24	0.07	0.11	0.16	0.21	0.06	0.11	0.15	0.20	
0.38																										
DC																										
Ball																										
Yes																										
Sirocco																										
Yes																										
6" / 6" to 4" reducer																										
10-1/2"																										
13"																										
Add module FV-MSVK1 or FV-CMVK3																										
Yes																										
110/100/90/80/70/60/50/40/30 CFM																										
Yes																										
N/A																										
N/A																										
N/A																										
N/A																										
N/A																										
N/A																										
N/A																										
N/A																										
9.9																										
Yes																										
Yes																										
Yes																										
Yes																										
Yes																										



HEALTHY AIR, HEALTHY HOME

True Flow ratings at **0.375" and 0.5"** static pressure provide powerful airflow to assure code compliant, healthy homes.

FV-0511VKSL3K



Specifications													
Duct Diameter (inches)													
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25		
	Air Volume (CFM)	110	110	110	106	100	100	100	100	90	90		
	Noise (sones)	<0.3	<0.3	---	---	<0.3	0.3	---	---	<0.3	<0.3		
	Power Consumption (watts)	7.1	12.4	18.1	22.7	6.1	11.7	16.5	21.9	5.5	10.6		
	Energy Efficiency (CFM/Watt)	15.6	8.9	6.2	4.7	16.5	8.6	6.1	4.6	16.4	8.5		
	Speed (RPM)	644	945	1138	1304	621	948	1132	1297	614	943		
	Amps (Current)	0.12	0.21	0.30	0.36	0.11	0.19	0.26	0.34	0.10	0.18		
	MAX. Amps (Current)												
Duct Diameter (inches)													
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25		
	Air Volume (CFM)	110	110	110	100	100	100	100	100	90	90		
	Noise (sones)	<0.3	0.6	---	---	<0.3	0.6	---	---	<0.3	0.5		
	Power Consumption (watts)	10.7	16.5	22.1	24.8	8.7	14.6	19.1	24.3	7.2	12.6		
	Energy Efficiency (CFM/Watt)	10.3	6.7	5.1	4.0	11.7	7.0	5.3	4.2	12.7	7.4		
	Speed (RPM)	834	1079	1240	1373	801	1060	1223	1372	759	1031		
	Amps (Current)	0.17	0.26	0.34	0.38	0.15	0.24	0.31	0.38	0.13	0.21		
	MAX. Amps (Current)												
Specifications	Motor Type												
	Type of Motor Bearing												
	Thermal Fuse Protection												
	Blower Wheel Type												
	ENERGY STAR Qualified												
Installation	Duct Diameter (Inches)												
	Mounting Opening (Inches sq.)												
	Grille Size (Inches sq.)												
Additional Features	SmartAction Motion Sensor												
	On / Off Delay Timer												
	CustomVent Variable Speed Control												
	SmartFlow Optimum CFM Technology												
Light Specifications	Lamp Watts												
	Lumens (lm)												
	Lumens Per Watt (LPW)												
	Color Rendering Index												
	Color Temperature (Kelvin)												
	Rated Life (hours)												
	Lamp Model #												
	Type of Lamp Socket												
Night Light Specs	Night Light Watts												
Shipping	Gross Weight (lbs)												
Approved Code/ Standard/Regulation	UL tub/Shower Enclosure												
	Washington VIAQ Code												
	Wall installation												
	California Title 24 Compliant												
	Mfg in ISO 9001 Certified Facility												

WhisperGreen® Select (Fan + Light)																											
Base fan with multi-speed + 5 CCT LED Light + Night Light																											
FV-0511VKSL3K																											
6"																											
0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5		
90	90	80	80	80	80	70	70	70	70	60	60	60	60	50	50	50	50	40	40	40	40	30	30	30	30		
---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---	<0.3	<0.3	---	---		
15.2	19.4	4.8	9.5	13.7	17.9	4.5	8.7	12.7	16.5	4.0	8.0	11.4	14.7	3.7	7.2	10.1	13.5	3.2	6.2	9.2	12.6	3.0	5.8	8.5	11.6		
6.0	4.7	16.9	8.5	5.9	4.5	15.8	8.2	5.6	4.3	15.3	7.7	5.3	4.2	13.7	7.2	5.3	4.1	13.2	7.0	4.8	3.6	10.7	5.7	4.2	3.2		
1131	1296	608	933	1126	1298	610	928	1139	1300	611	946	1143	1292	610	937	1132	1301	589	929	1139	1322	599	950	1148	1309		
0.24	0.31	0.09	0.16	0.22	0.28	0.08	0.15	0.21	0.27	0.08	0.14	0.19	0.24	0.07	0.13	0.17	0.23	0.06	0.11	0.16	0.21	0.06	0.10	0.15	0.20		
0.36																											
4"																											
0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5		
90	90	80	80	80	80	70	70	70	70	60	60	60	60	50	50	50	50	40	40	40	40	30	30	30	30		
---	---	<0.3	0.5	---	---	<0.3	0.4	---	---	<0.3	0.4	---	---	<0.3	0.4	---	---	<0.3	0.3	---	---	<0.3	0.3	---	---		
17.2	21.9	6.4	11.2	15.1	19.7	5.6	9.6	14.0	17.8	4.6	8.5	11.7	15.7	3.9	7.5	10.4	13.7	3.4	6.5	9.4	12.4	2.9	5.7	8.3	11.7		
5.4	4.2	12.6	7.3	5.3	4.1	12.6	7.4	5.1	3.9	13.2	7.1	5.1	4.0	13.0	6.7	4.9	3.7	12.5	6.5	4.6	3.4	11.0	5.6	3.8	2.7		
1203	1360	735	1008	1188	1354	712	981	1187	1342	675	977	1163	1327	628	959	1152	1319	612	950	1148	1312	605	940	1140	1310		
0.28	0.35	0.11	0.19	0.25	0.32	0.10	0.16	0.23	0.28	0.09	0.15	0.20	0.25	0.07	0.13	0.18	0.23	0.07	0.12	0.16	0.21	0.06	0.10	0.14	0.19		
0.38																											
DC																											
Ball																											
Yes																											
Sirocco																											
Yes																											
6" / 6" to 4" reducer																											
10-1/2"																											
13"																											
Add module FV-MSVK1 or FV-CMVK3																											
Yes																											
110/100/90/80/70/60/50/40/30 CFM																											
Yes																											
12.5																											
1,000																											
80																											
90																											
3000/3500/4000/5000/6000																											
50,000																											
N/A																											
LED chip																											
1.3																											
11.8																											
Yes																											
Yes																											
Yes																											
Yes																											
Yes																											



Exploded view diagram of the 13-inch square recessed lighting fixture assembly. The diagram shows the main housing, a central lens, and a trim ring. Dimensions are provided for the housing: 7-1/2 inch height, 10-1/4 inch width, and 10-1/4 inch depth. The trim ring has a diameter of 13 inches. A detail of the lens shows a 5-7/8 inch diameter.

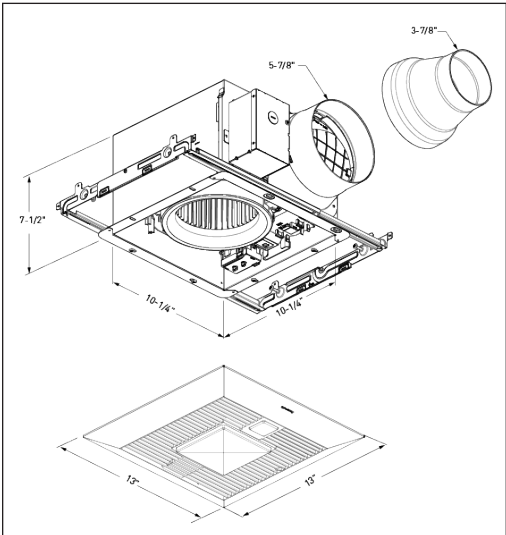
Specifications											
Duct Diameter (inches)											
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25
	Air Volume (CFM)	150	150	147	115	130	130	130	117	120	120
	Noise (sones)	0.4	0.8	---	---	<0.3	0.5	---	---	<0.3	0.4
	Power Consumption (watts)	12.5	19.2	24.4	24.3	9.6	15.8	21.3	24.2	8.1	13.7
	Energy Efficiency (CFM/Watt)	12.1	7.9	6.0	4.8	13.7	8.6	6.2	4.9	15.1	9.1
	Speed (RPM)	729	959	1132	1289	677	944	1136	1288	657	931
	Amps (Current)	0.21	0.3	0.39	0.39	0.16	0.26	0.34	0.38	0.14	0.23
	MAX. Amps (Current)										
Specifications	Motor Type										
	Type of Motor Bearing										
	Thermal Fuse Protection										
	Blower Wheel Type										
	ENERGY STAR Qualified										
Installation	Duct Diameter (Inches)										
	Mounting Opening (Inches sq.)										
	Grille Size (Inches sq.)										
Additional Features	SmartAction Motion Sensor										
	On / Off Delay Timer										
	CustomVent Variable Speed Control										
	SmartFlow Optimum CFM Technology										
Light Specifications	Lamp Watts										
	Lumens (lm)										
	Lumens Per Watt (LPW)										
	Color Rendering Index										
	Color Temperature (Kelvin)										
	Rated Life (hours)										
	Lamp Model #										
	Type of Lamp Socket										
Night Light Specs	Night Light Watts										
Shipping	Gross Weight (lbs)										
Approved Code/ Standard/ Regulation	UL tub/Shower Enclosure										
	Washington VIAQ Code										
	Wall installation										
	California Title 24 Compliant										
	Mfg in ISO 9001 Certified Facility										

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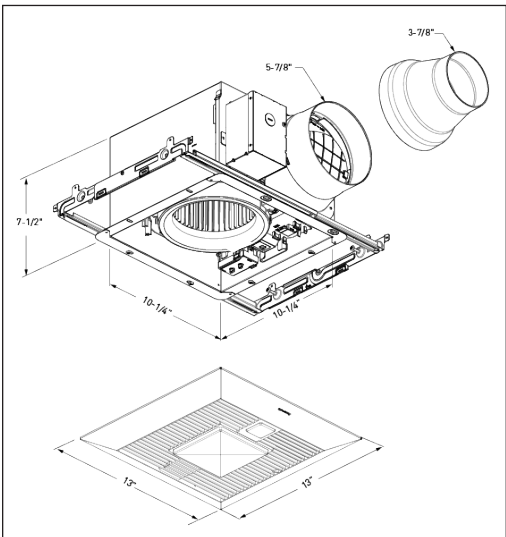


HEALTHY AIR, HEALTHY HOME
True Flow ratings at **0.375" and 0.5"**
static pressure provide powerful airflow
to assure code compliant, healthy homes.

FV-0511VKSL3



FV-0511VKL3

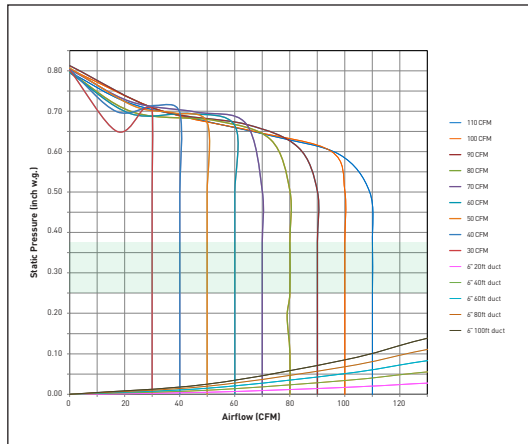


Specifications											
Duct Diameter (inches)											
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25
	Air Volume [CFM]	110	110	107	104	100	100	100	100	90	90
	Noise [sones]	<0.3	0.3	---	---	<0.3	0.3	---	---	<0.3	0.3
	Power Consumption (watts)	7.2	12.6	18.1	22.7	6.0	11.4	16.5	21.6	5.3	10.4
	Energy Efficiency (CFM/Watt)	15.7	9.0	6.0	4.7	17.5	9.3	6.6	4.9	18.0	9.2
	Speed (RPM)	636	915	1123	1285	621	934	1126	1290	605	930
	Amps [Current]	0.12	0.20	0.28	0.35	0.11	0.19	0.27	0.35	0.10	0.18
	MAX. Amps [Current]										
Duct Diameter (inches)											
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25
	Air Volume [CFM]	110	110	110	99	100	100	100	100	90	90
	Noise [sones]	<0.3	0.7	---	---	<0.3	0.7	---	---	<0.3	0.7
	Power Consumption (watts)	10.5	16.3	22.1	24.8	8.6	13.9	19.2	24.3	7.2	12.7
	Energy Efficiency (CFM/Watt)	10.8	7.0	5.1	4.1	12.2	7.6	5.5	4.3	13.1	7.6
	Speed (RPM)	824	1069	1244	1373	793	1039	1222	1370	754	1033
	Amps [Current]	0.17	0.26	0.34	0.38	0.15	0.23	0.31	0.38	0.13	0.21
	MAX. Amps [Current]										
Specifications	Motor Type										
	Type of Motor Bearing										
	Thermal Fuse Protection										
	Blower Wheel Type										
	ENERGY STAR Qualified										
Installation	Duct Diameter (Inches)										
	Mounting Opening (Inches sq.)										
	Grille Size (Inches sq.)										
Additional Features	SmartAction Motion Sensor										
	On / Off Delay Timer										
	CustomVent Variable Speed Control										
	SmartFlow Optimum CFM Technology										
Light Specifications	Lamp Watts										
	Lumens (lm)										
	Lumens Per Watt (LPW)										
	Color Rendering Index										
	Color Temperature (Kelvin)										
	Rated Life (hours)										
	Lamp Model #										
Type of Lamp Socket											
Night Light Specs	Night Light Watts										
Shipping	Gross Weight (lbs)										
Approved Code/ Standard/Regulation	UL tub/Shower Enclosure										
	Washington VIAQ Code										
	Wall installation										
	California Title 24 Compliant										
	Mfg in ISO 9001 Certified Facility										

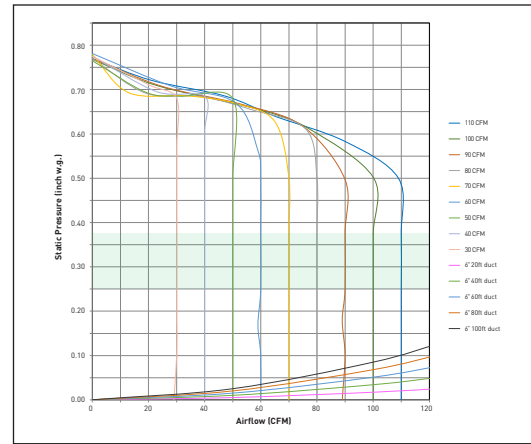
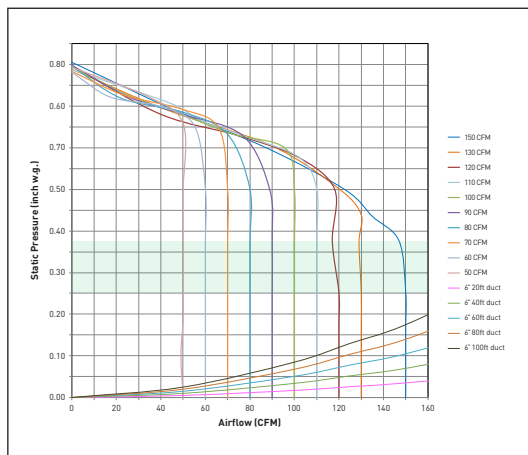
WhisperGreen® Select (Fan + Light)																											
Base Fan / Fan with multi-speed + Warm White LED Light + Night Light																											
FV-0511VKL3 / FV-0511VKS L3																											
6"																											
0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5		
90	90	80	80	80	80	70	70	70	70	60	60	60	60	50	50	50	50	40	40	40	40	30	30	30	30		
---	---	<0.3	0.3	---	---	<0.3	0.3	---	---	<0.3	0.3	---	---	<0.3	0.3	---	---	<0.3	0.3	---	---	<0.3	<0.3	---	---		
15.0	19.7	4.6	9.4	13.5	18.2	4.2	8.5	12.5	16.4	3.9	8.0	11.3	15.4	3.5	7.2	10.1	13.7	3.2	6.3	9.0	12.6	2.9	5.6	8.5	11.7		
6.5	4.8	18.2	9.1	6.3	4.8	17.8	8.8	6.0	4.6	15.5	7.6	5.4	4.0	14.9	7.2	5.3	4.0	13.3	6.8	4.8	3.5	11.0	5.8	3.9	3.0		
1122	1294	591	922	1121	1292	588	920	1129	1292	595	935	1131	1311	587	937	1130	1314	586	934	1138	1325	595	938	1155	1304		
0.25	0.32	0.09	0.17	0.23	0.30	0.08	0.15	0.21	0.27	0.07	0.14	0.19	0.25	0.07	0.13	0.17	0.22	0.06	0.11	0.16	0.21	0.06	0.10	0.15	0.20		
0.35																											
4"																											
0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5	0.1	0.25	0.375	0.5		
90	90	80	80	80	80	70	70	70	70	60	60	60	60	50	50	50	50	40	40	40	40	30	30	30	30		
---	---	<0.3	0.7	---	---	<0.3	0.7	---	---	<0.3	0.6	---	---	<0.3	0.6	---	---	<0.3	0.5	---	---	<0.3	0.4	---	---		
17.0	21.9	6.4	11.1	15.0	18.8	5.3	9.6	13.8	17.7	4.7	8.3	11.9	15.8	3.9	7.4	10.7	14.2	3.5	6.4	9.7	13.0	3.1	5.9	9.2	12.0		
5.6	4.3	13.0	7.6	5.5	4.4	13.3	7.4	5.5	4.0	12.9	7.3	5.1	3.9	13.1	6.8	5.0	3.8	11.9	6.5	4.7	3.5	10.0	5.3	3.6	2.9		
1199	1359	722	1004	1187	1342	693	983	1184	1343	672	966	1169	1331	643	961	1158	1334	628	955	1165	1338	623	969	1158	1327		
0.28	0.35	0.11	0.18	0.25	0.30	0.10	0.16	0.23	0.28	0.09	0.14	0.20	0.26	0.07	0.13	0.18	0.23	0.07	0.11	0.16	0.21	0.06	0.11	0.15	0.20		
0.38																											
DC																											
Ball																											
Yes																											
Sirocco																											
Yes																											
6" / 6" to 4" reducer																											
10-1/2"																											
13"																											
Add module FV-MSVK1 or FV-CMVK3																											
Standard in FV-0511VKS L3 Model																											
FV-0511VKL3: 110/80/50																											
FV-0511VKS L3: 110/100/90/80/70/60/50/40/30																											
Yes																											
10.0																											
700																											
70																											
90																											
3000																											
50,000																											
N/A																											
LED chip																											
0.2																											
10.1																											
Yes																											
Yes																											
Yes																											
Yes																											
Yes																											

FV-0511VK3 50-80-110**FV-0511VKS3 30-110**

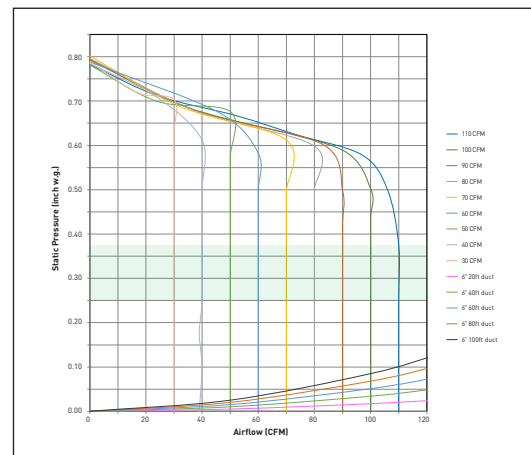
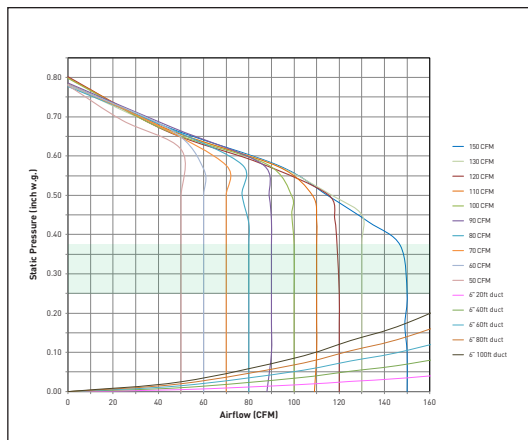
- Fan with multi-speed tested with 6" duct
- Certified Performance with 4" duct available

**FV-0511VKS3S 30-110**

- Architectural Grille Fan with multi-speed tested with 6" duct
- Certified Performance with 4" duct Available


FV-1115VK3 110-130-150 Base Fan +
FV-VS15VK1 50-150 Tested with 6" duct
**FV-0511VKSL3K 30-110**

- Architectural Grille LED Fan with multi-speed tested with 6" duct
- Certified Performance with 4" duct available


FV-1115VKL3 110-130-150 Base Fan +
FV-VS15VK1 50-150 Tested with 6" duct
**FV-0511VKL3 50-80-110****FV-0511VKSL3 30-110**

- Fan + LED with multi-speed tested with 6" Duct
- Certified Performance with 4" duct Available

